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MPsrch pp protein - protein database search, using Smith-Waterman algorithm

Run on:

Tue Jan 21 18:50:59 1997; MasPar time 11.31 Seconds

639.201 Million cell updates/sec

Tabular output not generated.

Title:

>US-08-469-637-2

Description:

(1-390) from US08469637.pep (1 of 2)

Perfect Score:

2927

Sequence:

1 MNKLLCCALVFLDISIKWTT......VPSQLHNVQIVSEVIFRNDR 390

Scoring table:

PAM 150

Gap 11

Searched:

52205 seqs, 18531385 residues

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database:

swiss-prot33

1:part1 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7

8:part8 9:part9 10:part10

Statistics:

Mean 47.266; Variance 77.924; scale 0.607

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description	Pred. No.
1	405	13.8	461	9	TNR2 HUMAN	TUMOR NECROSIS FACTOR	1.65e-65
2	375	12.8	474	9	TNR2_MOUSE	TUMOR NECROSIS FACTOR	
3	303	10.4	277	_. 2	CD40_HUMAN	CD40L RECEPTOR PRECUR	
4	294	10.0	305	2	CD40_MOUSE	CD40L RECEPTOR PRECUR	4.26e-40

5	269	9.2	326	9	VT2_MYXVL	TUMOR NECROSIS FACTOR	1.43e-34
6	260	8.9	325	9	VT2_SFVKA	TUMOR NECROSIS FACTOR	1.32e-32
7	260	8.9	435	9	TNRL_HUMAN	LYMPHOTOXIN-BETA RECE	1.32e-32
8	233	8.0	349	9	VC22_VARV	PROTEIN C22/B28 HOMOL	8.41e-27
9	221	7.6	454	9	TNR1_MOUSE	TUMOR NECROSIS FACTOR	2.86e-24
10	220	7.5	461	9	TNR1_RAT	TUMOR NECROSIS FACTOR	4.63e-24
11	215	7.3	416	6	NGFR_CHICK	LOW-AFFINITY NERVE GR	5.12e-23
12	213	7.3	427	6	NGFR_HUMAN	LOW-AFFINITY NERVE GR	1.33e-22
13	207	7.1	425	6	NGFR_RAT	LOW-AFFINITY NERVE GR	2.32e-21
14	178	6.1	595	2	CD30_HUMAN	CD30L RECEPTOR PRECUR	1.62e-15
15	172	5.9	455	9	TNR1_HUMAN	TUMOR NECROSIS FACTOR	2.42e-14
16	159	5.4	256	1	41BB_MOUSE	4-1BB LIGAND RECEPTOR	7.53e-12
17	159	5.4	260	2	CD27_HUMAN	CD27L RECEPTOR PRECUR	7.53e-12
18	146	5.0	271	6	OX40_RAT	OX40L RECEPTOR PRECUR	1.96e-09
19	144	4.9	272	6	OX40_MOUSE	OX40L RECEPTOR PRECUR	4.52e-09
20	140	4.8	255	1	41BB_HUMAN	4-1BB LIGAND RECEPTOR	2.38e-08
21	141	4.8	277	6	OX40_HUMAN	OX40L RECEPTOR PRECUR	1.57e-08
22	137	4.7	327	3	FASA_MOUSE	FASL RECEPTOR PRECURS	8.14e-08
23	134	4.6	250	2	CD27_MOUSE	CD27L RECEPTOR PRECUR	2.75e-07
24	134	4.6	335	3	FASA_HUMAN	FASL RECEPTOR PRECURS	2.75e-07
25	124	4.2	103	9	VA53_VACCV	PROTEIN A53.	1.44e-05
26	124	4.2	103	9	VA53_VACCC	PROTEIN A53.	1.44e-05
27	115	3.9	360 1	0	YIH9_YEAST	HYPOTHETICAL 41.6 KD	4.40e-04
28	105	3.6	2813	9	VWF_HUMAN	VON WILLEBRAND FACTOR	1.62e-02
29	102	3.5	3084	5	LMA1_MOUSE	LAMININ ALPHA-1 CHAIN	4.59e-02
30	100	3.4	1752	3	DESP_HUMAN	DESMOPLAKIN I AND II	9.05e-02
31	96	3.3	1104	8	SYV_YEAST	VALYL-TRNA SYNTHETASE	3.42e-01
32	96	3.3	1356	5	KAB7_YEAST	PROBABLE SERINE/THREO	3.42e-01
33	98	3.3	1947	6	MYSC_CAEEL	MYOSIN HEAVY CHAIN C	1.77e-01
34	96	3.3	2767	9	THYG_HUMAN	THYROGLOBULIN PRECURS	3.42e-01
35	96	3.3	3707	5	PGBM_MOUSE	BASEMENT MEMBRANE-SPE	3.42e-01
36	97	3.3	4092	3	DYHC_YEAST	DYNEIN HEAVY CHAIN, C	2.46e-01
37	94	3.2	122 \	9	VC22_VACCC	PROTEIN C22/B28.	6.54e-01
38	95	3.2	125	9	TNPF_STAAU	TRANSPOSASE FOR TRANS	4.73e-01
39	93	3.2	218	5	MERB_BACSR	ALKYLMERCURY LYASE (E	9.00e-01
40	95	3.2	916	3	RTJK_DROME	RNA-DIRECTED DNA POLY	4.73e-01
41	93	3.2	1122	9	TIE2_MOUSE	TYROSINE-PROTEIN KINA	9.00e-01
42	93	3.2	1429	5	LI12_CAEEL	LIN-12 PROTEIN PRECUR	9.00e-01
43	94	3.2	1609	5	LMG1_HUMAN	LAMININ GAMMA-1 CHAIN	6.54e-01
44	94	3.2	1966 6	5	MYSB_CAEEL	MYOSIN HEAVY CHAIN B	6.54e-01
45	95	3.2	2769	9	THYG_BOVIN	THYROGLOBULIN PRECURS	4.73e-01

ALIGNMENTS

RESULT 1 ID TNR2_HUMAN STANDARD; PRT; 461 AA. AC P20333; DT01-FEB-1991 (REL. 17, CREATED) 01-AUG-1991 (REL. 19, LAST SEQUENCE UPDATE) DT \mathtt{DT} 01-NOV-1995 (REL. 32, LAST ANNOTATION UPDATE) DΕ TUMOR NECROSIS FACTOR RECEPTOR 2 PRECURSOR (TUMOR NECROSIS FACTOR

DE

BINDING PROTEIN 2) (TBPII) (P80) (TNF-R2) (P75) (CD120B).

GN TNFR2 OR TNFBR.

```
os
     HOMO SAPIENS (HUMAN).
     EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
OC
OC
     EUTHERIA; PRIMATES.
RN
     [1]
     SEQUENCE FROM N.A.
RP
RX
     MEDLINE; 90260639.
     SMITH C.A., DAVIS T., ANDERSON D., SOLAM L., BECKMANN M.P., JERZY R.,
RA
RA
     DOWER S.K., COSMAN D., GOODWIN R.G.;
     SCIENCE 248:1019-1023(1990).
RL
RN
     [2]
RP
     SEQUENCE FROM N.A.
     MEDLINE; 91045991.
RX
     KOHNO T., BREWER M.T., BAKER S.L., SCHWARTZ P.E., KING M.W.,
     HALE K.K., SQUIRES C.H., THOMPSON R.C., VANNICE J.L.;
RA
     PROC. NATL. ACAD. SCI. U.S.A. 87:8331-8335(1990).
RN
     [3]
RP
     SEQUENCE OF 116-461 FROM N.A., AND PARTIAL SEQUENCE.
RX
     MEDLINE; 90349572.
RA
     HELLER R.A., SONG K., ONASCH M.A., FISCHER W.H., CHANG D.,
RA
     RINGOLD G.M.;
RL
     PROC. NATL. ACAD. SCI. U.S.A. 87:6151-6155(1990).
RN
RP
     SEQUENCE OF 27-31.
RX
     MEDLINE; 90110215.
RA
     ENGELMANN H., NOVICK D., WALLACH D.;
     J. BIOL. CHEM. 265:1531-1536(1990).
RL
RN
     [5]
     SEQUENCE OF 22-40; 65-69; 136-141; 300-306 AND 346-362.
RP
     MEDLINE; 91056048.
RX
     LOETSCHER H., SCHLAEGER E.J., LAHM H.-W., PAN Y.-C.E., LESSLAUER W.,
RA
RA
     BROCKHAUS M.;
RL
     J. BIOL. CHEM. 265:20131-20138(1990).
RN
     [6]
RP
     CHARACTERIZATION.
RX
    MEDLINE; 93016040.
RΆ
    PENNICA D., LAM V.T., MIZE N.K., WEBER R.F., LEWIS M., FENDLY B.M.,
    LIPARI M.T., GOEDDEL D.V.;
RA
RL
    J. BIOL. CHEM. 267:21172-21178(1992).
CC
     -!- FUNCTION: RECEPTOR FOR TNF-ALPHA. HIGH AFFINITY FOR TNA-ALPHA AND
CC
         APPROXIMATELY 5-FOLD LOWER AFFINITY FOR TNF-BETA.
CC
     -!- PTM: PHOSPHORYLATED; MAINLY ON SERINE RESIDUES WITH A VERY LOW
CC
         LEVEL ON THREONINE RESIDUES.
     -!- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
CC
CC
     -!- SIMILARITY: CONTAINS A LA-NGFR/TNFR-TYPE CYSTEINE-RICH REGION.
DR
    EMBL; M32315; G189186; -.
DR
    EMBL; M35857; G339752; -.
DR
    EMBL; M55994; G339758; -.
DR
    PIR; A35356; A35356.
    PIR; A36007; A36007.
DR
    PIR; A36475; A36475.
DR
    PIR; B35010; B35010.
    PIR; A23666; A23666.
DR
DR
    HSSP; P19438; 1TNR.
DR
    MIM; 191191; 11TH EDITION.
```

```
RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN; REPEAT; SIGNAL;
KW
KW
     PHOSPHORYLATION.
FT
     SIGNAL
                        22
                  1
FT
     CHAIN
                 23
                       461
                                 TUMOR NECROSIS FACTOR RECEPTOR 2.
FT
     DOMAIN
                 23
                       257
                                 EXTRACELLULAR (POTENTIAL).
FT
     TRANSMEM
                258
                       287
                                 POTENTIAL.
FT
     DOMAIN
                288
                       461
                                 CYTOPLASMIC (POTENTIAL).
FT
     DOMAIN
                 39
                       201
                                 4 X TNFR-CYS.
     REPEAT
                 39
                       76
                                 TNFR-CYS 1.
FT
FT
     REPEAT
                 77
                       118
                                 TNFR-CYS 2.
FT
     REPEAT
                119
                       162
                                TNFR-CYS 3.
FT
     REPEAT
                163
                       201
                                TNFR-CYS 4.
FT
    DISULFID
                 40
                       53
                                BY SIMILARITY.
FT
    DISULFID
                 54
                        67
                                BY SIMILARITY.
FT
    DISULFID
                 57
                        75
                                BY SIMILARITY.
FT
                 78
    DISULFID
                       93
                                BY SIMILARITY.
                 96
FT
    DISULFID
                                BY SIMILARITY.
                       110
FT
    DISULFID
                100
                       118
                                BY SIMILARITY.
FT
    DISULFID
                120
                       126
                                BY SIMILARITY.
FT
    DISULFID
                134
                       143
                                BY SIMILARITY.
FT
    DISULFID
                137
                       161
                                BY SIMILARITY.
FT
                                BY SIMILARITY.
    DISULFID
                164
                       179
FT
    CARBOHYD
                171
                       171
                                POTENTIAL.
FΤ
    CARBOHYD
                193
                       193
                                POTENTIAL.
FT
    CONFLICT
                141
                       141
                                R \rightarrow P (IN REF. 3).
FT
    CONFLICT
                196
                       196
                                R \rightarrow M (IN REF. 1).
FT
    CONFLICT
               363
                       363
                                A \rightarrow T (IN REF. 3).
SO
               461 AA; 48316 MW; 0F5D0C44 CRC32;
    SEQUENCE
  Query Match
                        13.8%; Score 405; DB 9; Length 461;
  Best Local Similarity 41.8%; Pred. No. 1.65e-65;
  Matches
            69; Conservative
                               26; Mismatches 59; Indels 11; Gaps
      45 yydqta-qmccskcspgqhakvfctktsdtvcdscedstytqlwnwvpeclscgsrcssd 103
Db
         31 YDEETSHQLLCDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDECLYCSPVCKEL 90
Qу
     104 qvetqactreqnrictcrpgwycalskqegcrlcaplrkcrpgfgvarpgtetsdvvckp 163
Db
             91 QYVKQECNRTHNRVCECKEGRY--LEI-EFC-L-KH-RSCPPGFGVVQAGTPERNTVCKR 144
Qу
Db
     164 capgtfsnttsstdicrphqicnvvai---p-gnasrdavctsts 204
         1: 1 111 111
                      Qу
     145 CPDGFFSNETSSKAPCRKHTNCSVFGLLLTQKGNATHDNICSGNS 189
RESULT
         2
ID
    TNR2 MOUSE
                   STANDARD;
                                 PRT:
                                        474 AA.
AC
    P25119;
DT
    01-MAY-1992 (REL. 22, CREATED)
DT
    01-MAY-1992 (REL. 22, LAST SEQUENCE UPDATE)
DT
    01-FEB-1995 (REL. 31, LAST ANNOTATION UPDATE)
    TUMOR NECROSIS FACTOR RECEPTOR 2 PRECURSOR (TNF-R2) (P75).
```

DR

PROSITE; PS00652; TNFR NGFR.

```
GN
     TNFR-2.
os
     MUS MUSCULUS (MOUSE).
     EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
OC
OC
     EUTHERIA; RODENTIA.
RN
     [1]
     SEOUENCE FROM N.A.
RP
RX
     MEDLINE; 91187885.
RA
     LEWIS M., TARTAGLIA L.A., LEE A., BENNETT G.L., RICE G.C.,
     WONG G.H., CHEN E.Y., GOEDDEL D.V.;
RA
     PROC. NATL. ACAD. SCI. U.S.A. 88:2830-2834(1991).
RL
RN
     [2]
RP
     SEQUENCE FROM N.A.
RX
     MEDLINE; 91246168.
RA
     GOODWIN R.G., ANDERSON D., JERZY R., DAVIS T., BRANNAN C.I.,
RA
     COPELAND N.G., JENKINS N.A., SMITH C.A.;
     MOL. CELL. BIOL. 11:3020-3026(1991).
RL
CC
     -!- FUNCTION: RECEPTOR FOR TNF-ALPHA.
     -!- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
CC
     -!- SIMILARITY: CONTAINS A LA-NGFR/TNFR-TYPE CYSTEINE-RICH REGION.
CC
DR
     EMBL; M60469; G199828; -.
DR
     EMBL; M59378; G202095; -.
     PIR; B38634; B38634.
DR
DR
     HSSP; P19438; 1TNR.
     PROSITE; PS00652; TNFR NGFR.
DR
KW
     RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN; REPEAT; SIGNAL.
FT
     SIGNAL
                  1
                         22
FT
     CHAIN
                  23
                        474
                                  TUMOR NECROSIS FACTOR RECEPTOR 2.
                                  EXTRACELLULAR (POTENTIAL).
FT
    DOMAIN
                 23
                       258
FT
     TRANSMEM
                 259
                       288
                                  POTENTIAL.
FT
    DOMAIN
                 289
                       474
                                  CYTOPLASMIC (POTENTIAL).
FT
    DOMAIN
                 39
                       203
                                  4 X TNFR-CYS.
    REPEAT
                 39
FT
                        77
                                  TNFR-CYS 1.
FT
    REPEAT
                 78
                       119
                                  TNFR-CYS 2.
FT
    REPEAT
                 120
                      164
                                 TNFR-CYS 3.
FT
    REPEAT
                 165
                      203
                                 TNFR-CYS 4.
FT
    DISULFID
                 40
                       54
                                 BY SIMILARITY.
FT
    DISULFID
                 55
                        68
                                 BY SIMILARITY.
FT
    DISULFID
                 58
                        76
                                 BY SIMILARITY.
FT
    DISULFID
                 79
                       94
                                 BY SIMILARITY.
FT
    DISULFID
                 97
                       111
                                 BY SIMILARITY.
FT
    DISULFID
                101
                       119
                                 BY SIMILARITY.
FT
    DISULFID
                                 BY SIMILARITY.
                121
                      127
FT
    DISULFID
                136
                      145
                                 BY SIMILARITY.
FT
    DISULFID
                139
                       163
                                 BY SIMILARITY.
FT
    DISULFID
                166
                       181
                                 BY SIMILARITY.
FT
    CARBOHYD
                 69
                        69
                                 POTENTIAL.
FT
                195
    CARBOHYD
                       195
                                  POTENTIAL.
SO
     SEQUENCE
               474 AA; 50319 MW; DC32B2B6 CRC32;
 Query Match
                        12.8%; Score 375; DB 9; Length 474;
 Best Local Similarity 41.5%; Pred. No. 1.58e-58;
 Matches
            66; Conservative
                                21; Mismatches 61; Indels 11;
```

```
38 QLLCDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDECLYCSPVCKELQYVKQEC 97
Qy
Db
     112 tkqqnrvcaceaqrycalkthsqscrqcmrlskcqpqfgvassrapnqnvlckacapqtf 171
                                    : :|||| | | | |
                            1
      98 NRTHNRVCECKEGRY--LEIEF--CLKH-R-S-CPPGFGVVQAGTPERNTVCKRCPDGFF 150
QУ
     172 sdttsstdvcrphricsi--laip--gnastdavcapes 206
Db
                                 |||: | :|: :|
                 151 SNETSSKAPCRKHTNCSVFGLLLTQKGNATHDNICSGNS 189
Qу
RESULT
         3
    CD40_HUMAN
                   STANDARD;
ID
                                 PRT;
                                       277 AA.
AC
    P25942;
DT
    01-MAY-1992 (REL. 22, CREATED)
    01-MAY-1992 (REL. 22, LAST SEQUENCE UPDATE)
    01-JUN-1994 (REL. 29, LAST ANNOTATION UPDATE)
DE
    CD40L RECEPTOR PRECURSOR (B-CELL SURFACE ANTIGEN CD40) (BP50) (CDW40).
GN
    CD40.
OS
    HOMO SAPIENS (HUMAN).
    EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
OC
OC
    EUTHERIA; PRIMATES.
RN
RΡ
    SEQUENCE FROM N.A.
RX
    MEDLINE; 89356608.
RA
    STAMENKOVIC I., CLARK E.A., SEED B.;
    EMBO J. 8:1403-1410(1989).
CC
    -!- FUNCTION: RECEPTOR FOR A CYTOKINE LIGAND KNOWN AS CD40L.
    -!- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
CC
CC
    -!- TISSUE SPECIFICITY: B-CELLS AND IN PRIMARY CARCINOMAS.
CC
    -!- SIMILARITY: CONTAINS A LA-NGFR/TNFR-TYPE CYSTEINE-RICH REGION.
DR
    EMBL; X60592; G29851; -.
DR
    PIR; S04460; S04460.
DR
    MIM; 109535; 11TH EDITION.
DR
    PROSITE; PS00652; TNFR NGFR.
KW
    RECEPTOR; B-CELL; GLYCOPROTEIN; TRANSMEMBRANE; REPEAT; SIGNAL.
FT
                      19
    SIGNAL
                 1
                                POTENTIAL.
    CHAIN
                 20
                      277
FT
                                CD40L RECEPTOR.
FT
    DOMAIN
                20
                      193
                                EXTRACELLULAR (POTENTIAL).
FT
    TRANSMEM
                194
                      215
                                POTENTIAL.
FT
    DOMAIN
                216
                      277
                                CYTOPLASMIC (POTENTIAL).
FT
                25
    DOMAIN
                      187
                                4 X TNFR-CYS.
FT
    REPEAT
                 25
                      60
                                TNFR-CYS 1.
FT
    REPEAT
                61
                      103
                                TNFR-CYS 2.
FT
    REPEAT
                104
                      144
                                TNFR-CYS 3.
FT
    REPEAT
                145
                      187
                                TNFR-CYS 4.
FT
               153
                                POTENTIAL.
    CARBOHYD
                      153
FT
    CARBOHYD
               180
                     180
                               POTENTIAL.
SO
               277 AA; 30619 MW; 3B284411 CRC32;
    SEQUENCE
  Query Match
                       10.4%; Score 303; DB 2; Length 277;
  Best Local Similarity 36.8%; Pred. No. 4.15e-42;
 Matches
          56; Conservative
                               21; Mismatches 67; Indels 8; Gaps
```

```
Db
      38 cslcqpgqklvsdctefteteclpcgesefldtwnrethchqhkycdpn-lglr-vqqkg 95
                           11
                                                          1: | |
      41 CDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDEC-L--YCSPVCKELQYVKQEC 97
Qу
      96 tsetdtictceeqwhctseacescvlhrscspqfgvkqiatgvsdticepcpvqffsnvs 155
Db
             98 NRTHNRVCECKEGRY-L-EI-EFCLKHRSCPPGFGVVQAGTPERNTVCKRCPDGFFSNET 154
Qу
     156 safekchpwtscetkdlvvqqagtnktdvvcg 187
Db
         |: |: |:|
                       155 SSKAPCRKHTNCSVFGLLLTQKGNATHDNICS 186
QУ
RESULT
    CD40 MOUSE
                  STANDARD;
                                PRT;
                                       305 AA.
AC
    P27512;
DT
    01-AUG-1992 (REL. 23, CREATED)
    01-AUG-1992 (REL. 23, LAST SEQUENCE UPDATE)
DT
    01-JUN-1994 (REL. 29, LAST ANNOTATION UPDATE)
DT
    CD40L RECEPTOR PRECURSOR (B-CELL SURFACE ANTIGEN CD40) (BP50) (CDW40).
DE
GN
    CD40.
    MUS MUSCULUS (MOUSE).
os
OC
    EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
OC
    EUTHERIA; RODENTIA.
RN
    [1]
RP
    SEQUENCE FROM N.A.
    MEDLINE; 92105763.
RX
    TORRES R.M., CLARK E.A.;
RA
RL
    J. IMMUNOL. 148:620-626(1992).
    -!- FUNCTION: RECEPTOR FOR A CYTOKINE LIGAND KNOWN AS CD40L.
CC
CC
    -!- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
CC
    -!- SIMILARITY: CONTAINS A LA-NGFR/TNFR-TYPE CYSTEINE-RICH REGION.
DR
    EMBL; M83312; G192520; -.
DR
    PIR; A46476; A46476.
DR
    HSSP; P19438; 1TNR.
DR
    PROSITE; PS00652; TNFR NGFR.
KW
    RECEPTOR; B-CELL; GLYCOPROTEIN; TRANSMEMBRANE; REPEAT; SIGNAL.
FT
                      19
    SIGNAL
                 1
                             POTENTIAL.
FT
    CHAIN
                20
                      305
                               CD40L RECEPTOR.
FT
    DOMAIN
                20
                      193
                               EXTRACELLULAR (POTENTIAL).
FT
               194
                      215
                               POTENTIAL.
    TRANSMEM
FT
               216
                      305
                               CYTOPLASMIC (POTENTIAL).
    DOMAIN
FT
                25
                      187
                               4 X TNFR-CYS.
    DOMAIN
FT
    REPEAT
                25
                      60
                               TNFR-CYS 1.
FT
    REPEAT
                61
                      103
                               TNFR-CYS 2.
FT
    REPEAT
               104
                      144
                               TNFR-CYS 3.
FT
    REPEAT
               145
                      187
                               TNFR-CYS 4.
FT
    CARBOHYD
              153
                      153
                               POTENTIAL.
SO
    SEQUENCE 305 AA; 33617 MW; 781C241D CRC32;
                       10.0%; Score 294; DB 2; Length 305;
 Query Match
 Best Local Similarity 38.8%; Pred. No. 4.26e-40;
                              20; Mismatches 65; Indels 8; Gaps
 Matches
           59; Conservative
                                                                      6;
```

Db	38	cdlcqpgsrltshctalektqchpcdsgefsaqwnreirchqhrhcepn-qglr-vkkeg	95
Qy	41	CDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDEC-LYCSPVCKELQYVKQEC	97
Db	96	<pre>taesdtvctckegqhctskdceacaqhtpcipgfgvmematettdtvchpcpvgffsnqs : : : : : : </pre>	155
Qy	98	${\tt NRTHNRVCECKEGRY-LEIEFCLKHRSCPPGFGVVQAGTPERNTVCKRCPDGFFSNET}$	154
Db		slfekcypwtscedknlevlqkgtsqtnvicg 187	
Qy	155	SSKAPCRKHTNCSVFGLLLTQKGNATHDNICS 186	